

FIG.1

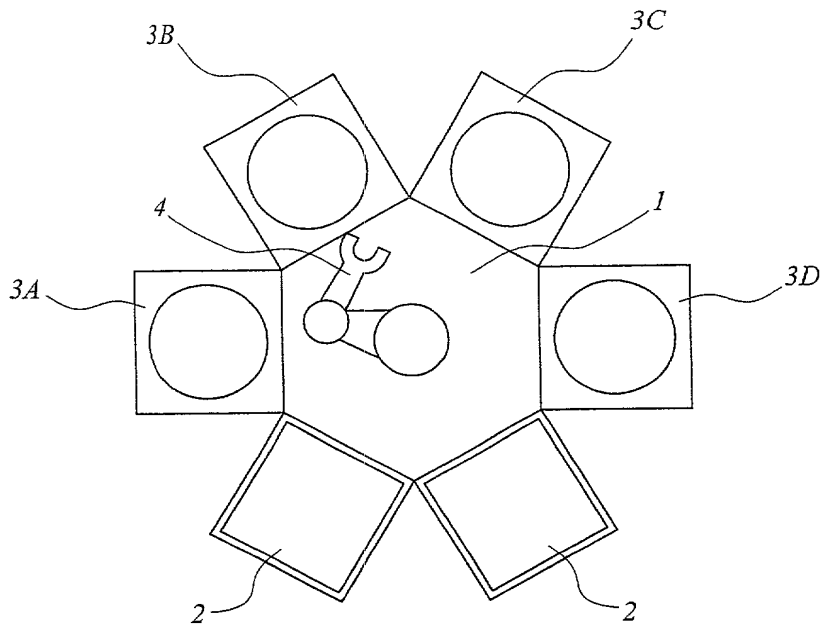


FIG.4

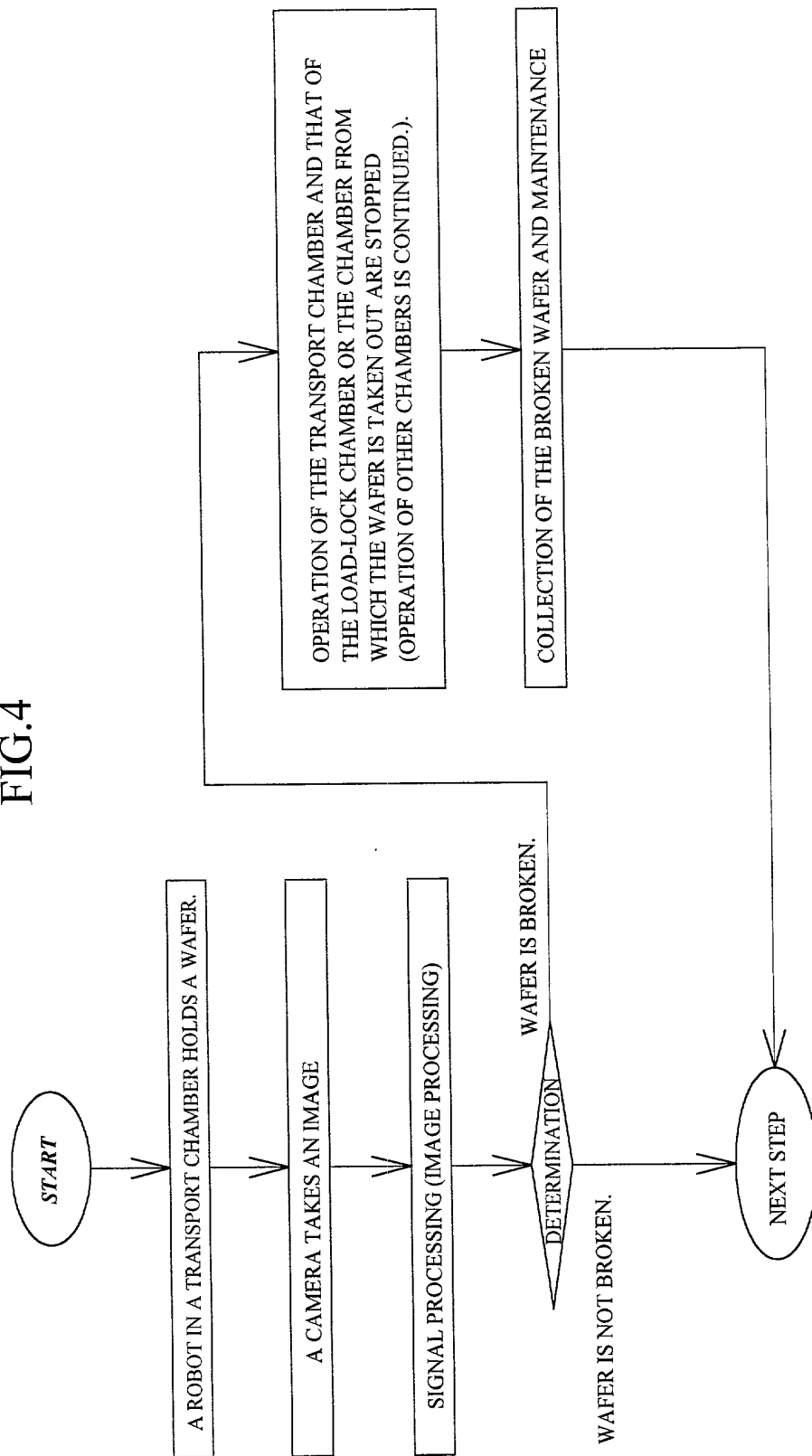
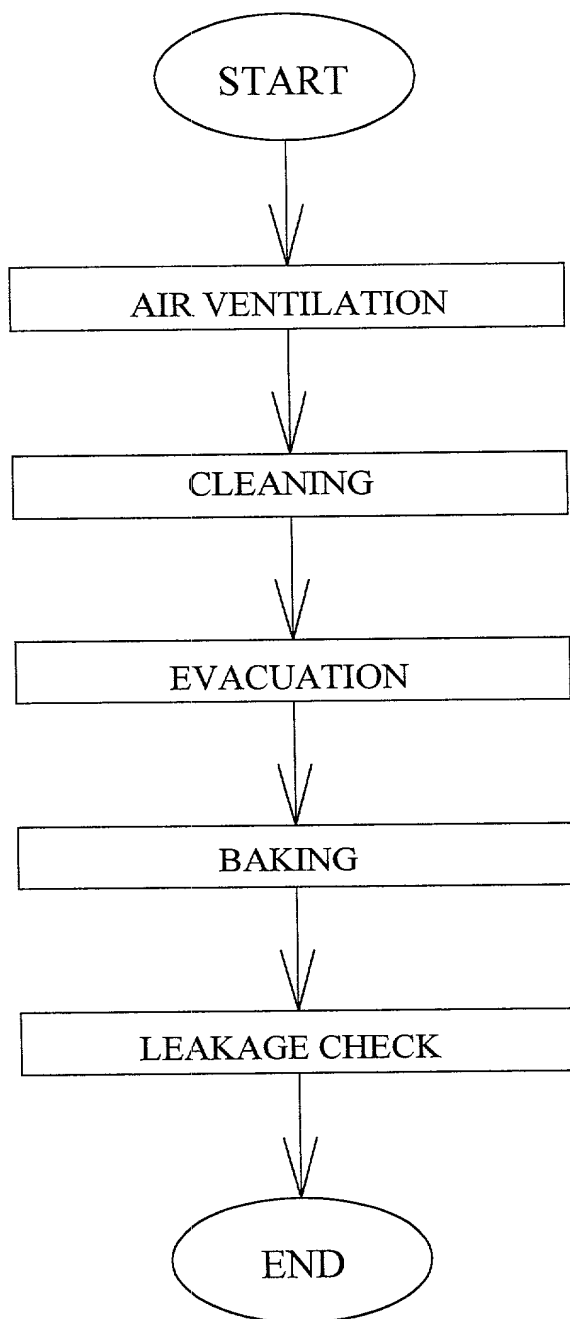


FIG.5



START

AIR VENTILATION

PARTS DETACHMENT

CLEANING

PARTS REPLACEMENT

EVACUATION

BAKING

LEAKAGE CHECK

DUMMY DISCHARGE

APPARATUS QC

PRECEDING QC

END

FIG.6

20100404-030101

Figure 1: Effect of the 12S mutation on the growth of *E. coli* strains.

Top Panel: Growth Curves

Strain	Optical Density (OD) at 600 nm
12S	~0.8
12SΔ	~0.6
12SΔΔ	~0.4

Middle Panel: Growth Rates

Strain	Growth Rate (h ⁻¹)
12S	~0.8
12SΔ	~0.6
12SΔΔ	~0.4

Bottom Panel: Growth Yields

Strain	Growth Yield (g/L)
12S	~0.8
12SΔ	~0.6
12SΔΔ	~0.4



FIG. 7B

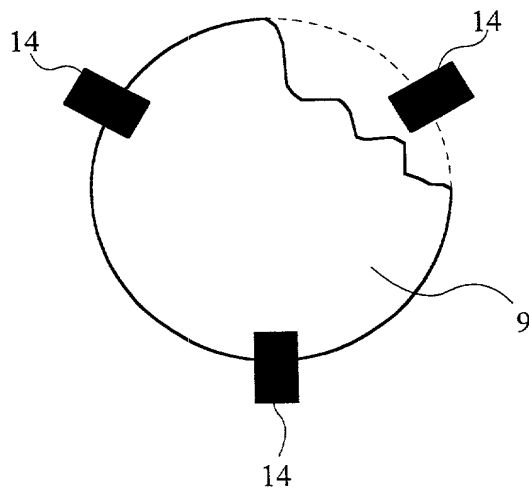


FIG.9

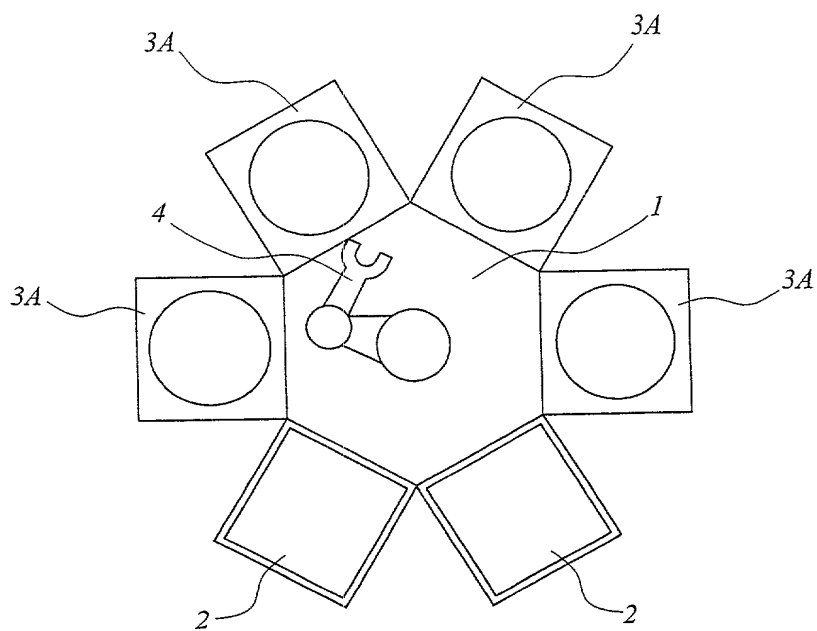


FIG.10

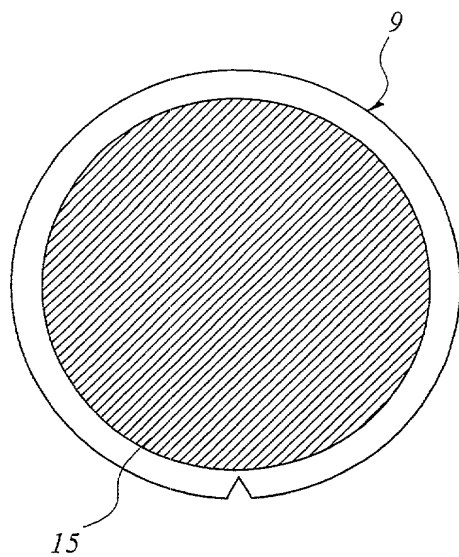


FIG.11

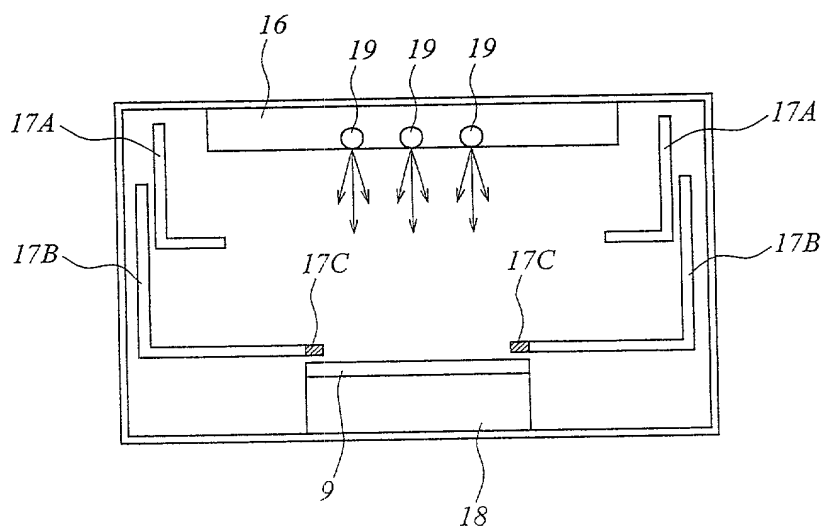


FIG.12

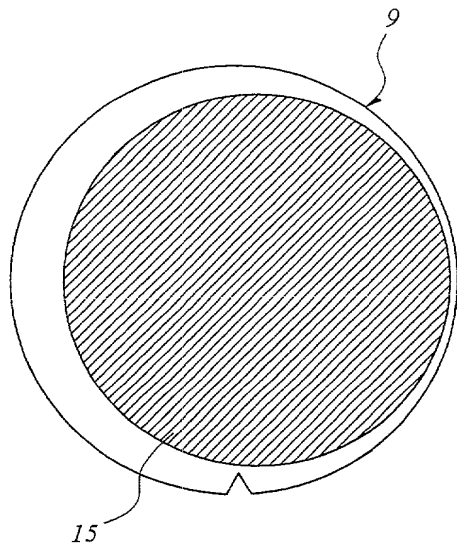


FIG.13A

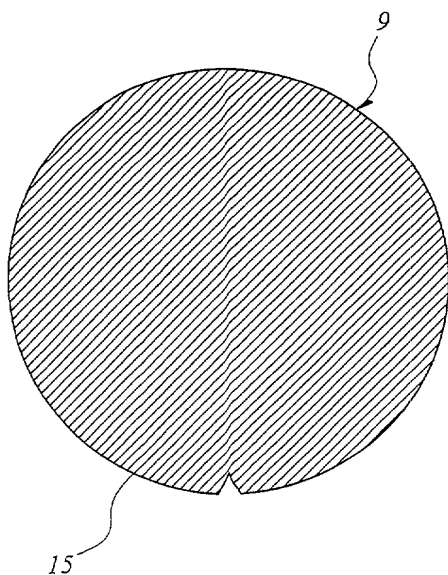
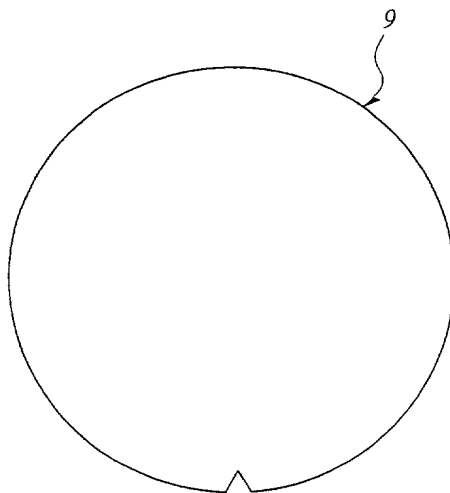


FIG.13B

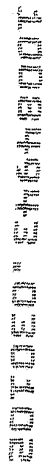


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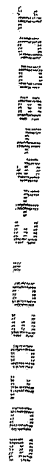
Variable	Mean	SD	Median	Mode	Range	Skewness	Kurtosis	Shapiro-Wilk	Normality
Age	34.5	10.2	32.0	30.0	20.0-50.0	0.15	2.10	0.98	Normal
Gender	1.2	0.4	1.0	1.0	1.0-2.0	0.05	0.10	0.99	Normal
Marital Status	1.5	0.5	1.0	1.0	1.0-2.0	0.05	0.10	0.99	Normal
Education	12.5	1.5	12.0	12.0	10.0-15.0	0.10	1.50	0.97	Normal
Income	1500	500	1200	1000	500-2500	0.20	2.50	0.95	Normal
Occupation	1.8	0.6	1.5	1.5	1.0-2.5	0.05	0.10	0.99	Normal
Religion	1.0	0.3	1.0	1.0	1.0-2.0	0.05	0.10	0.99	Normal
Health Status	1.5	0.5	1.0	1.0	1.0-2.0	0.05	0.10	0.99	Normal
Stress Level	2.5	0.8	2.0	2.0	1.0-4.0	0.10	1.50	0.97	Normal
Life Satisfaction	3.5	1.0	3.0	3.0	1.0-5.0	0.15	2.10	0.98	Normal
Work-Life Balance	2.0	0.7	1.5	1.5	1.0-3.0	0.10	1.50	0.97	Normal
Family Support	1.8	0.6	1.5	1.5	1.0-2.5	0.05	0.10	0.99	Normal
Community Involvement	1.2	0.4	1.0	1.0	1.0-2.0	0.05	0.10	0.99	Normal
Personal Growth	2.2	0.7	1.8	1.8	1.0-3.0	0.10	1.50	0.97	Normal
Financial Stability	1.5	0.5	1.0	1.0	1.0-2.0	0.05	0.10	0.99	Normal
Emotional Well-being	2.8	0.9	2.2	2.2	1.0-4.0	0.15	2.10	0.98	Normal
Physical Health	1.8	0.6	1.5	1.5	1.0-2.5	0.05	0.10	0.99	Normal
Mental Health	2.0	0.7	1.5	1.5	1.0-3.0	0.10	1.50	0.97	Normal
Social Skills	1.5	0.5	1.0	1.0	1.0-2.0	0.05	0.10	0.99	Normal
Self-esteem	2.5	0.8	2.0	2.0	1.0-4.0	0.10	1.50	0.97	Normal
Resilience	2.0	0.7	1.5	1.5	1.0-3.0	0.10	1.50	0.97	Normal
Optimism	2.2	0.7	1.8	1.8	1.0-3.0	0.10	1.50	0.97	Normal
Gratitude	2.5	0.8	2.0	2.0	1.0-4.0	0.10	1.50	0.97	Normal
Forgiveness	2.0	0.7	1.5	1.5	1.0-3.0	0.10	1.50	0.97	Normal
Empathy	2.2	0.7	1.8	1.8	1.0-3.0	0.10	1.50	0.97	Normal
Compassion	2.0	0.7	1.5	1.5	1.0-3.0	0.10	1.50	0.97	Normal
Kindness	2.2	0.7	1.8	1.8	1.0-3.0	0.10	1.50	0.97	Normal
Generosity	2.0	0.7	1.5	1.5	1.0-3.0	0.10	1.50	0.97	Normal
Patience	2.2	0.7	1.8	1.8	1.0-3.0	0.10	1.50	0.97	Normal
Humility	2.0	0.7	1.5	1.5	1.0-3.0	0.10	1.50	0.97	Normal
Modesty	2.2	0.7	1.8	1.8	1.0-3.0	0.10	1.50	0.97	Normal
Self-control	2.0	0.7	1.5	1.5	1.0-3.0	0.10	1.50	0.97	Normal
Discipline	2.2	0.7	1.8	1.8	1.0-3.0	0.10	1.50	0.97	Normal
Perseverance	2.0	0.7	1.5	1.5	1.0-3.0	0.10	1.50	0.97	Normal
Endurance	2.2	0.7	1.8	1.8	1.0-3.0	0.10	1.50	0.97	Normal
Stamina	2.0	0.7	1.5	1.5	1.0-3.0	0.10	1.50	0.97	Normal
Strength	2.2	0.7	1.8	1.8	1.0-3.0	0.10	1.50	0.97	Normal
Agility	2.0	0.7	1.5	1.5	1.0-3.0	0.10	1.50	0.97	Normal
Flexibility	2.2	0.7	1.8	1.8	1.0-3.0	0.10	1.50	0.97	Normal
Balance	2.0	0.7	1.5						



SECRET



SECRET



[illegible][illegible]

FIG.21

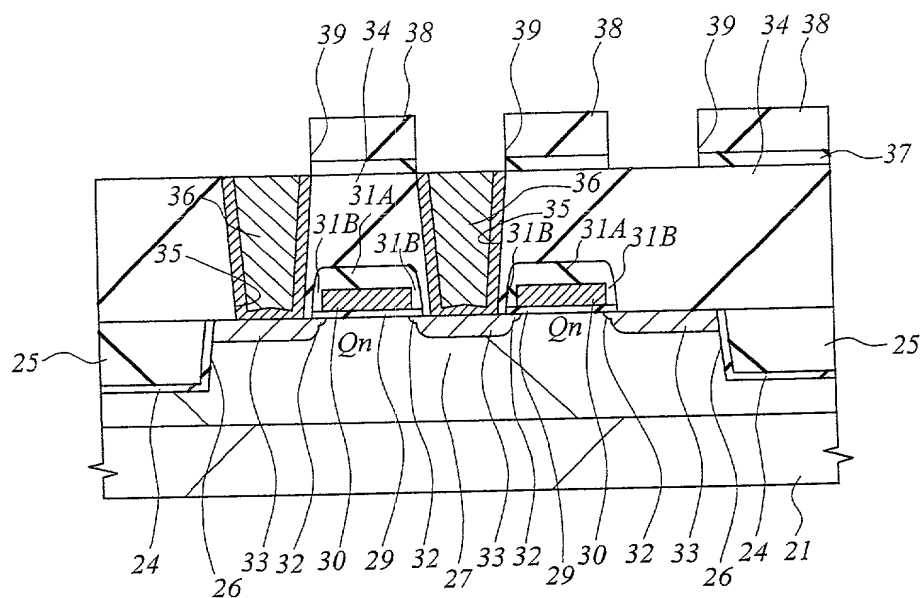


FIG.22

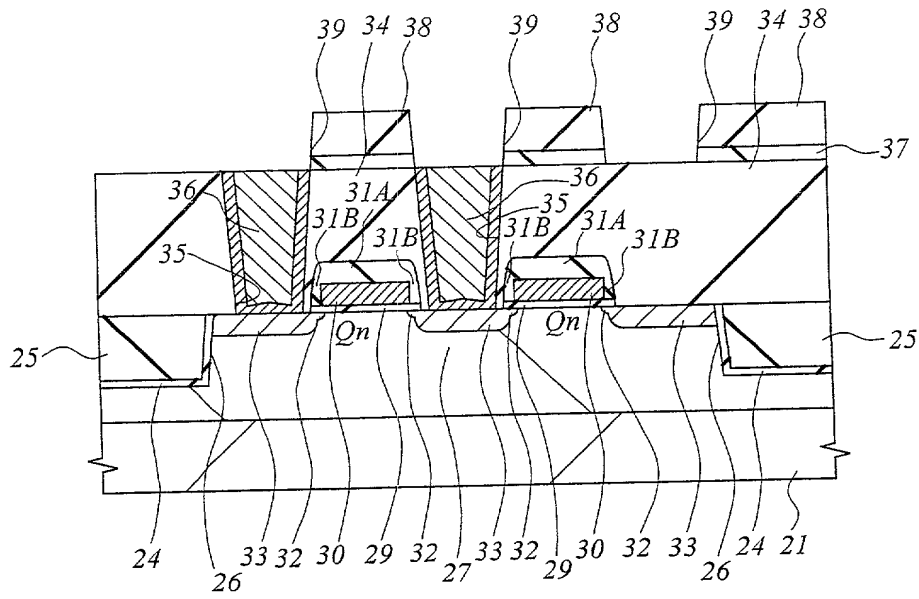


FIG.23

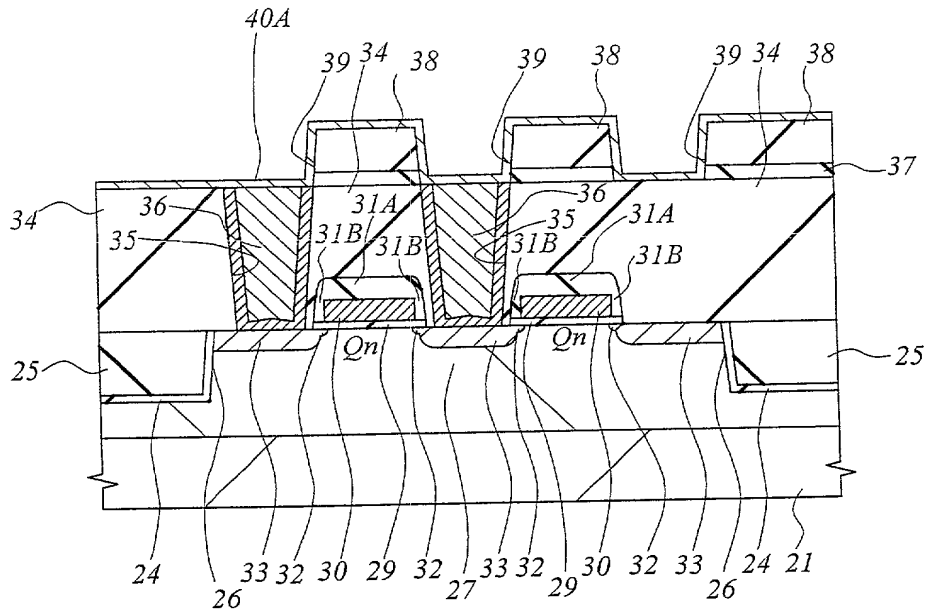
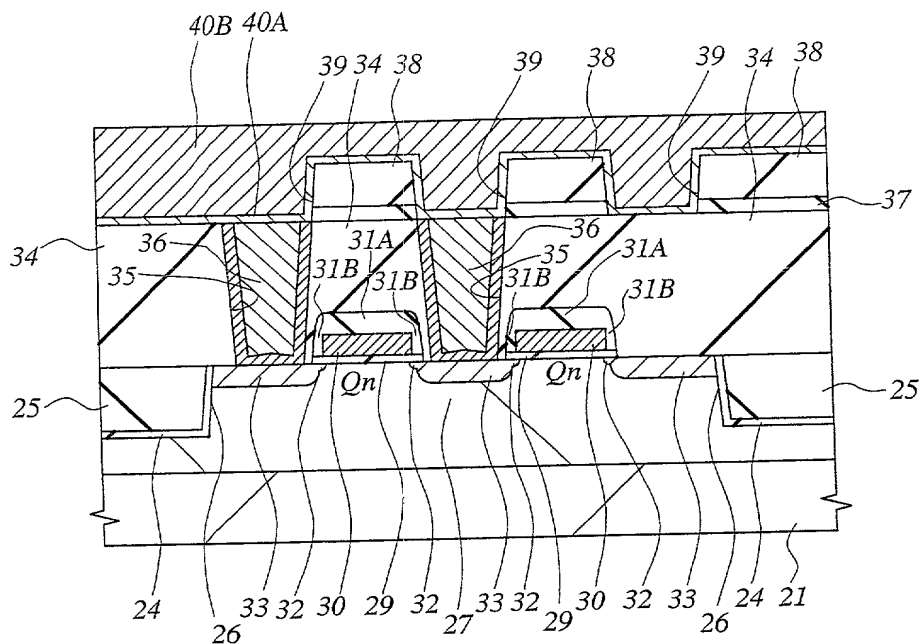
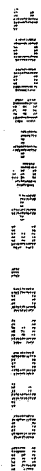


FIG.24



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FIG.27



FIG.28

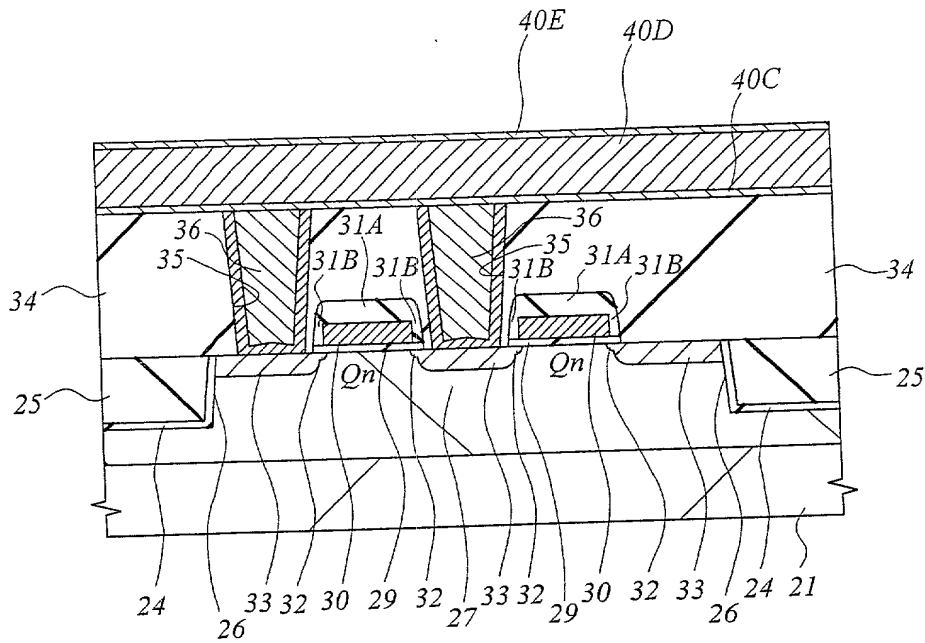
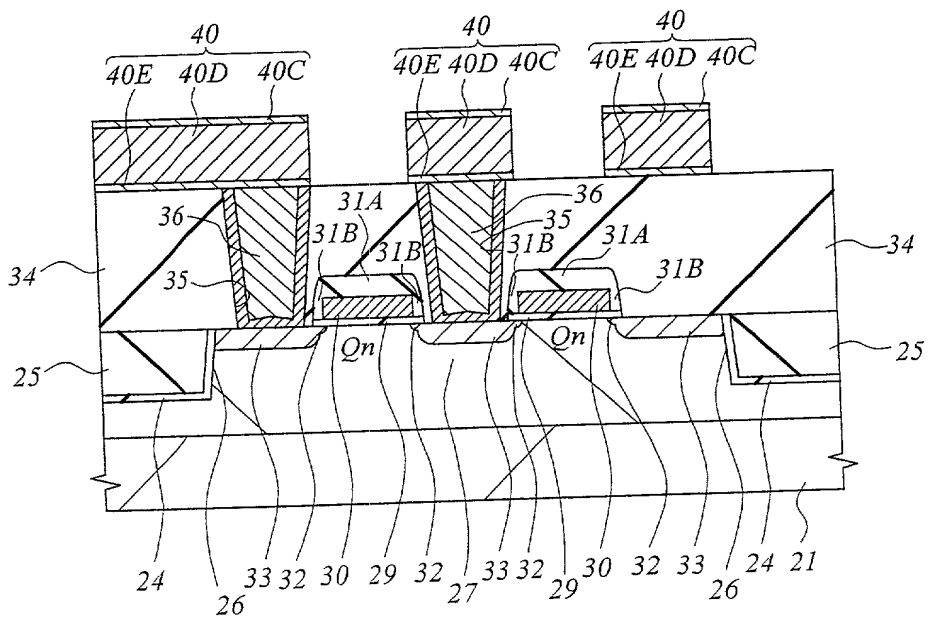
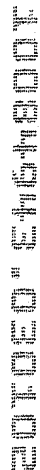


FIG.29



Variable	Mean	SD	Min	Max
Age	38.5	10.5	25	55
Gender	Male	Female		
Marital status	Married	Single		
Education	High school	College		
Occupation	Manager	Worker		
Income	Low	High		
Health status	Good	Poor		
Smoking status	Smoker	Non-smoker		
Alcohol consumption	Regular	Occasional		
Exercise frequency	Regular	Occasional		
Stress level	Low	High		
Sleep quality	Good	Poor		
Dietary habits	Healthy	Unhealthy		
Family size	Small	Large		
Work-life balance	Good	Poor		
Life satisfaction	High	Low		
Overall well-being	Good	Poor		



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Age	38.5	10.5	25	55
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